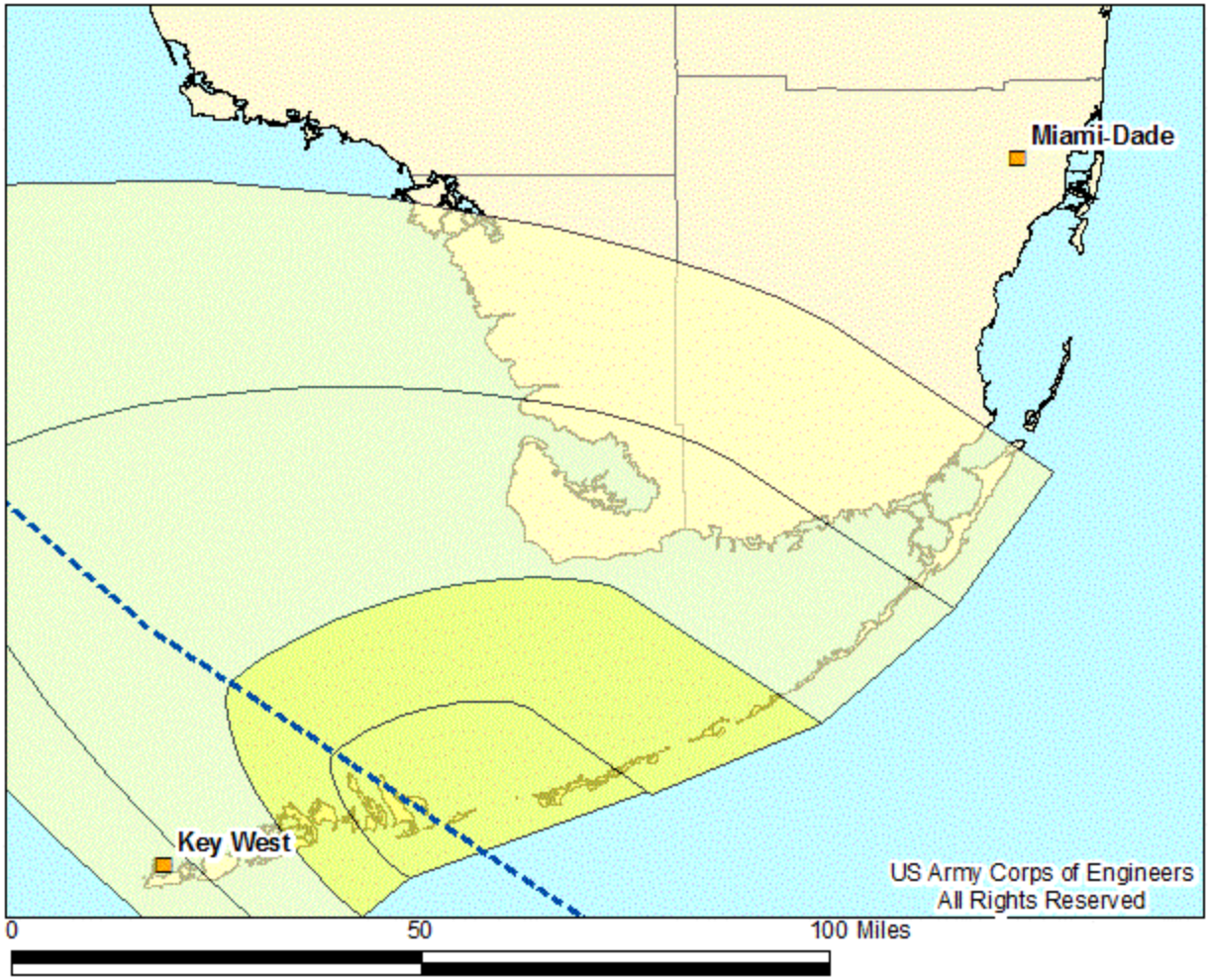
US Army Corps of Engineers

Hurricane Isaac Projected Damage Areas

Landfall Expected In About 39 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 1 storm making landfall on FL Keys.

Forecast Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a projected or actual Category 1 storm making landfall on FL Keys. These projections are based on information from the NHC (0500 EDT 08/25/2012) forecast and extrapolated by LRL staff to represent a landfall condition that has either occurred or may occur in the near future.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

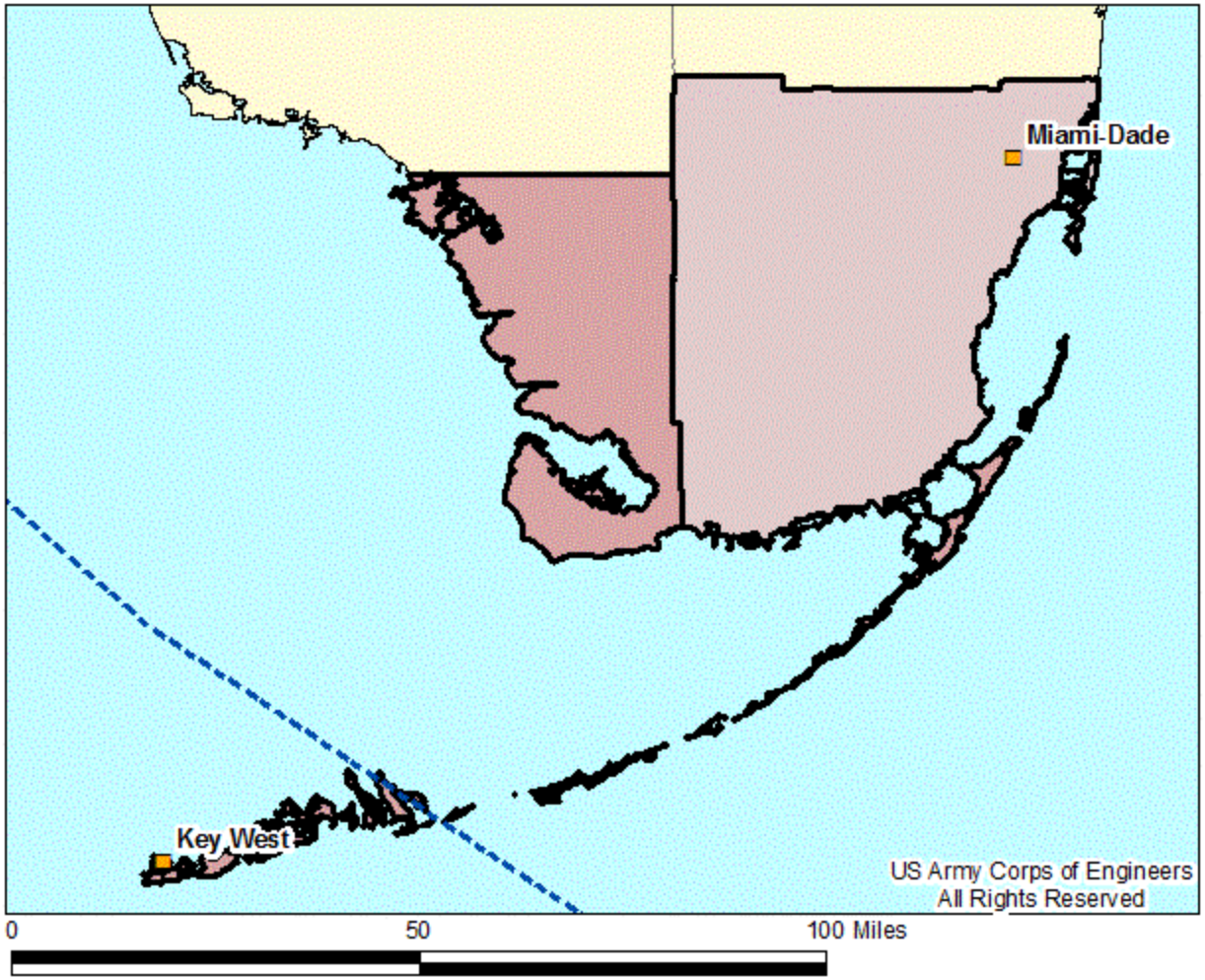
Hurricane Isaac Projected Damage Areas	
Generated By: Siemsen, LRL 1000 EDT 08/25/2012	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 12

US Army Corps of Engineers

Hurricane Isaac Debris Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Florida - 133,000 Yards

Model results per County on following page

This model is based on a Category 1 storm making landfall on FL Keys.

Forecast Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 1 storm making landfall on FL Keys. These projections are based on information from the NHC (0500 EDT 08/25/2012) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Debris Model	
Generated By: Siemsen, LRL 1000 EDT 08/25/2012	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Isaac Debris Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Florida		Miami-Dade County	8,000
		Monroe County	125,000
Florida	133,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Isaac Debris Model

Generated By:
Siemsen, LRL 1000 EDT 08/25/2012

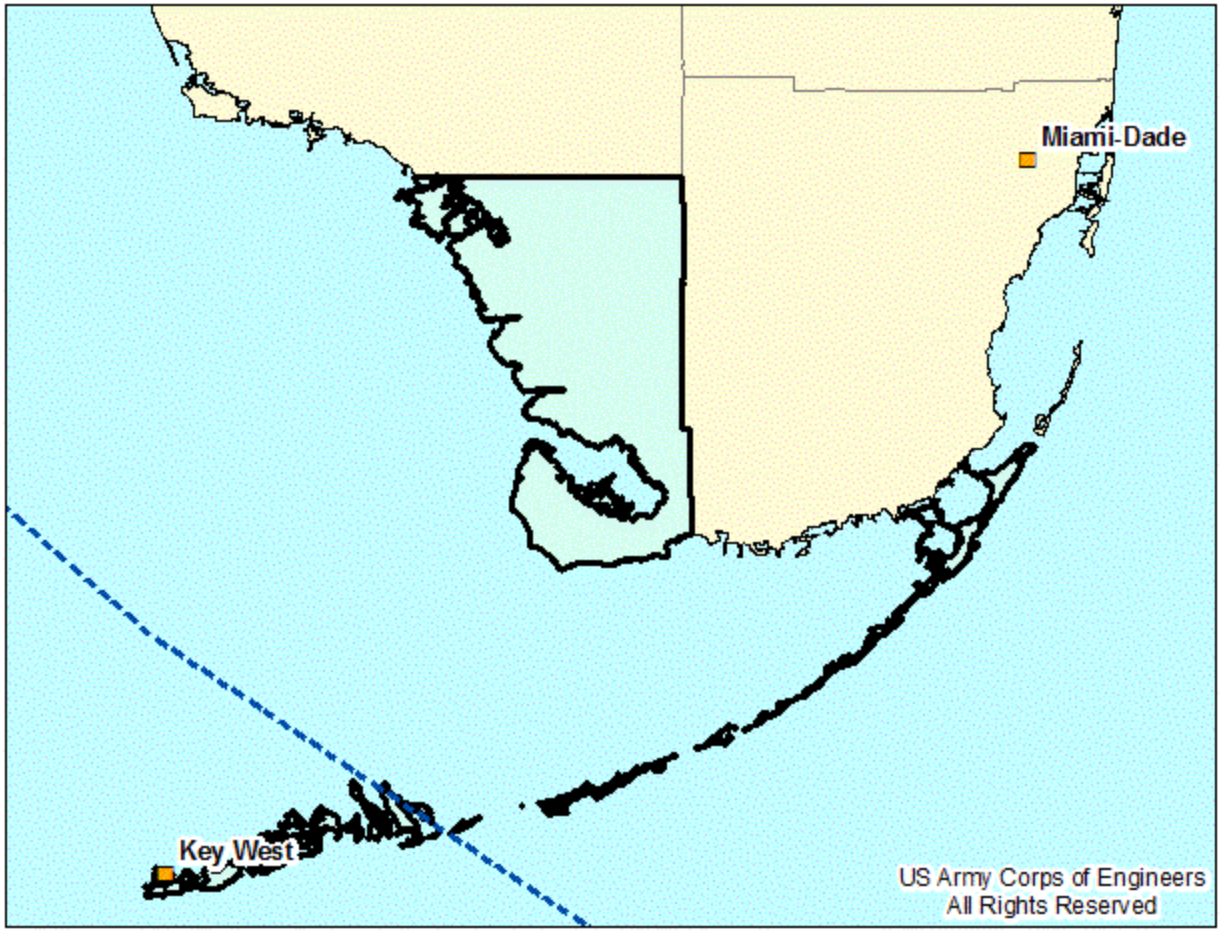
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Commodities Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
Florida - 2 Truckloads

Model results per County on following page

This model is based on a Category 1 storm making landfall on FL Keys.

Forecast Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 1 storm making landfall on FL Keys. These projections are based on information from the NHC ***(0500 EDT 08/25/2012)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents daily needs with a ramp-up in the distribution system – three days for Points of Distribution (PODs) to be fully in place and operational. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Commodities Model	
Generated By: Siemsen, LRL 1000 EDT 08/25/2012	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 12

US Army Corps of Engineers

Hurricane Isaac Commodities Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Florida		Monroe County	2
Florida	2		

Source: US Army Corps of Engineers, All Rights Reserved

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested daily needs based on full deployment of a commodities distribution system. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Commodities Model

Generated By:
Siemsen, LRL 1000 EDT 08/25/2012

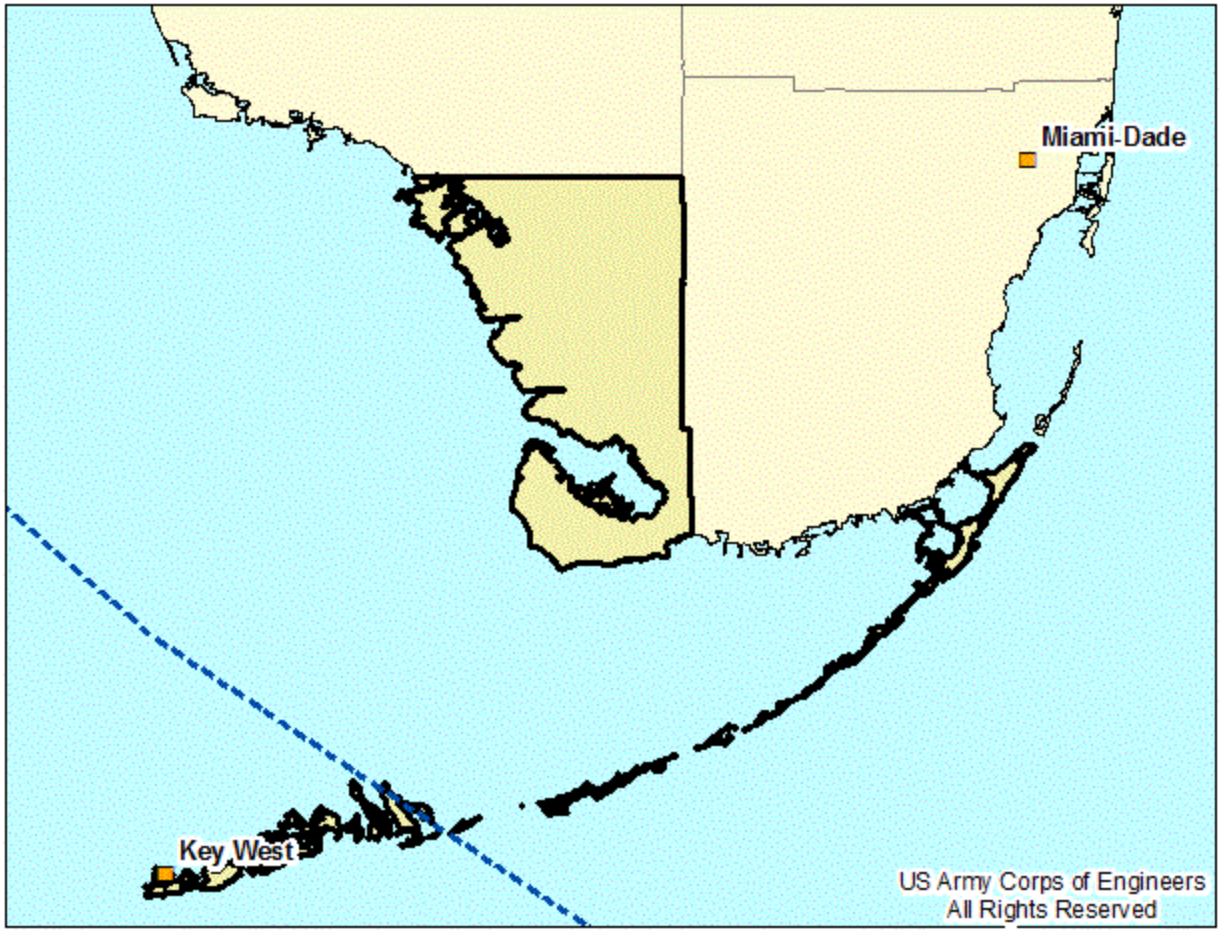
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Temporary Roofing Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Florida - 200

Model results per County on following page

This model is based on a Category 1 storm making landfall on FL Keys.

Forecast Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall on FL Keys. These projections are based on information from the NHC (0500 EDT 08/25/2012) forecast. Temporary roofing is based on 2% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Roofing Model	
Generated By: Siemsen, LRL 1000 EDT 08/25/2012	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 12

US Army Corps of Engineers

Hurricane Isaac Temporary Roofing Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Florida		Monroe County	200
Florida	200		

Temporary roofing is based on 2% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Isaac Roofing Model

Generated By:
Siemsen, LRL 1000 EDT 08/25/2012

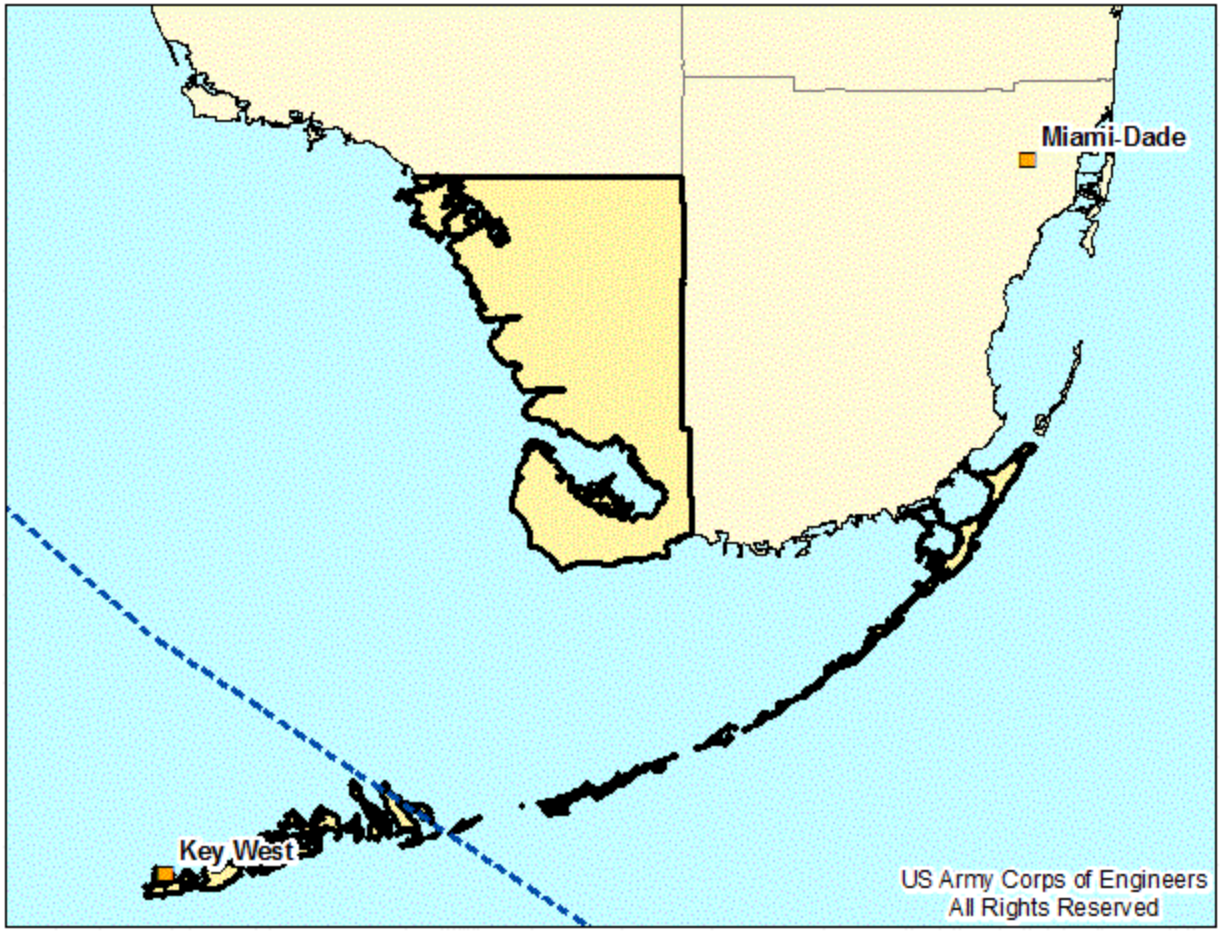
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Population Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Florida - 23,000

Model results per County on following page

This model is based on a Category 1 storm making landfall on FL Keys.

Forecast Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 1 storm making landfall on FL Keys. These projections are based on information from the NHC (0500 EDT 08/25/2012) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2010 values adjusted to July 2011 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Population Model	
Generated By: Siemsen, LRL 1000 EDT 08/25/2012	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 12

US Army Corps of Engineers

Hurricane Isaac Population Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Florida		Monroe County	23,000
Florida	23,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2010 values adjusted to July 2011 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Isaac Population Model

Generated By:
Siemsen, LRL 1000 EDT 08/25/2012

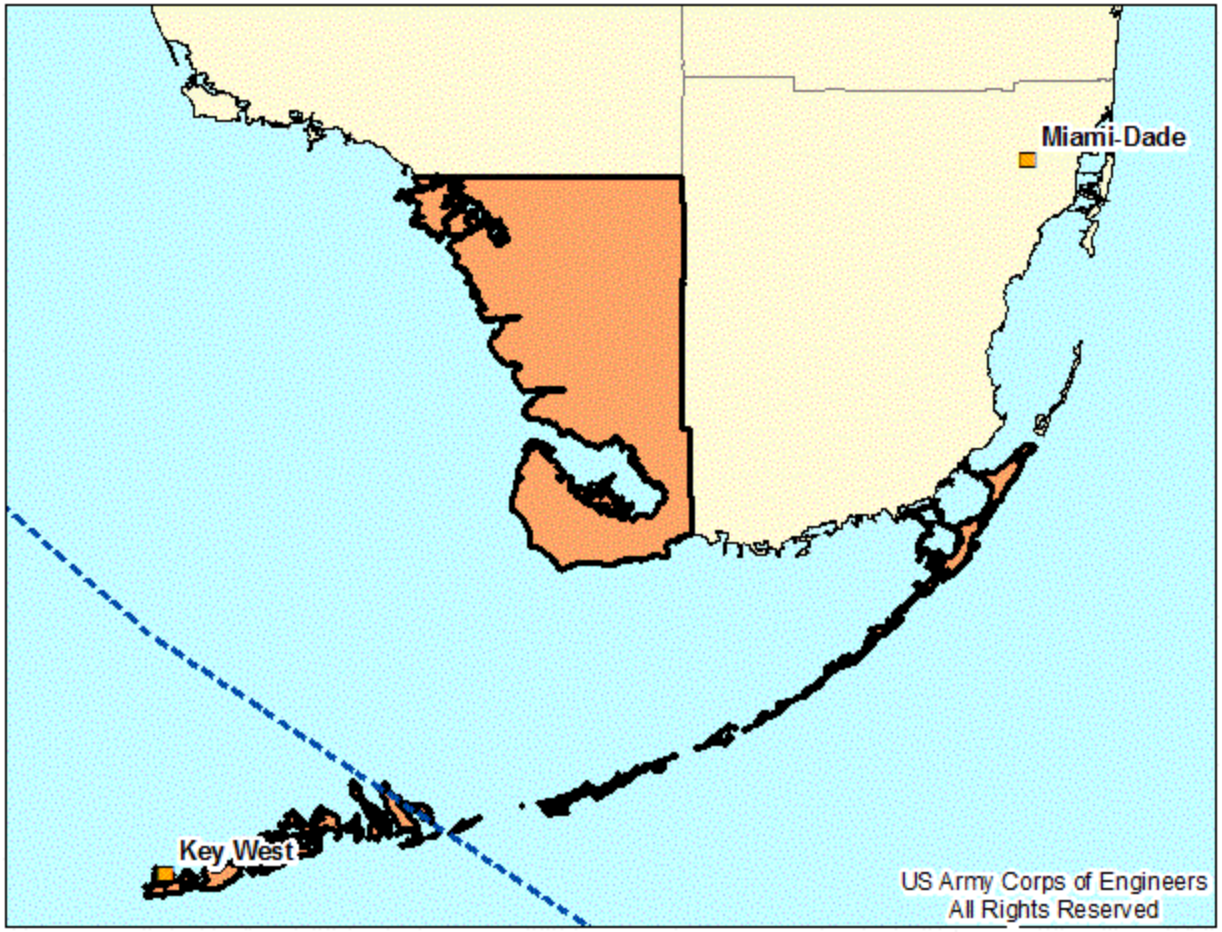
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Households Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

Florida - 11,000

Model results per County on following page

This model is based on a Category 1 storm making landfall on FL Keys.

Forecast Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 1 storm making landfall on FL Keys. These projections are based on information from the NHC (0500 EDT 08/25/2012) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2010 values adjusted to July 2011 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Households Model	
Generated By: Siemsen, LRL 1000 EDT 08/25/2012	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 12

US Army Corps of Engineers

Hurricane Isaac Households Model

Landfall Expected In About 39 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Florida		Monroe County	11,000
Florida	11,000		

The number of households estimated to be within the hurricane force winds comes from Census 2010 values adjusted to July 2011 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Isaac Households Model

Generated By:
Siemsen, LRL 1000 EDT 08/25/2012

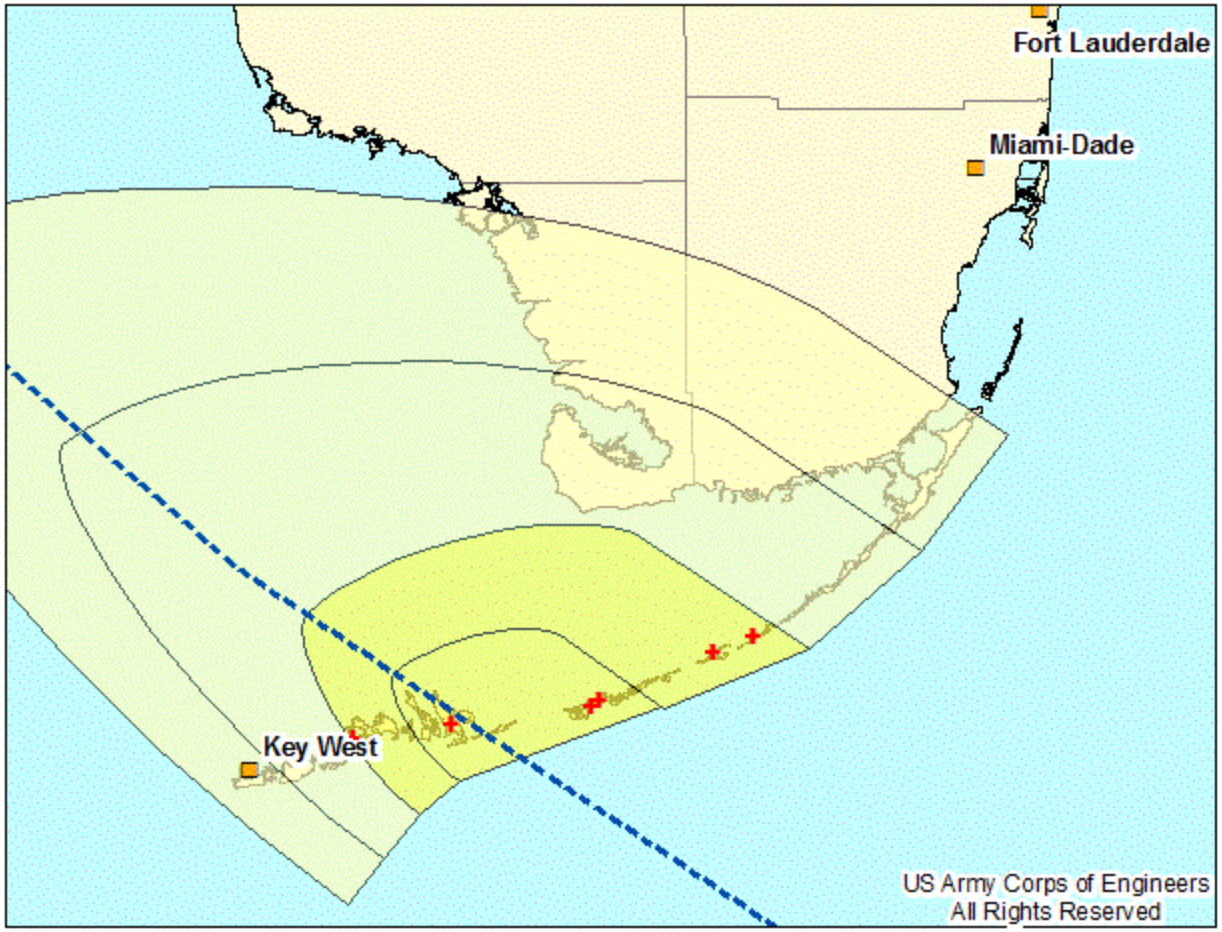
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Fire Stations

Landfall Expected In About 0 Hours

For Planning Purposes Only!



Most Probable Landfall Fire Stations Inside Hurricane Force Winds

Florida - 6

Model results per County on following page

This model is based on a Category 1 storm making landfall on Florida Keys.

+ Fire Stations

Forecast Track

Information provided on this page displays a Category 1 storm making landfall on Florida Keys. These projections are based on information from the NHC (0500 EDT 08/25/2012) forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Fire Stations	
Generated By: Siemsen, LRL 0930 EDT 08/25/2012	
Sources: HURREVAC LRL-DEBRIS	Page 12 of 12